

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
1 March 2001 (01.03.2001)

PCT

(10) International Publication Number  
WO 01/14454 A1

(51) International Patent Classification<sup>7</sup>: C08G 64/36

(21) International Application Number: PCT/US00/20228

(22) International Filing Date: 25 July 2000 (25.07.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
09/378,116 20 August 1999 (20.08.1999) US

(71) Applicant: GENERAL ELECTRIC COMPANY  
[US/US]; 1 River Road, Schenectady, NY 12345 (US).

(72) Inventors: CHAUDHARI, Raghunath, Vitthal; B-7, NCL Colony, Dr. Homi Bhabha Road, Pune 411 008 (IN). KELKAR, Ashutosh, Anant; B7C Hamshire House Apartments, 2150 Roas Road, Schenectady, NY 12309 (US). GUPTA, Sunil, Purushottam; E-6, NCL Colony, Dr. Homi Bhabha Road, Pune 411 008 (IN). BHANANAGE, Bhalechandra, Mahadeo; H. No. 366 Near Maruti Temple, Kharalwade, Pimpri, Pune 411 018 (IN). QURESHI, Mohammed, Shadbar; NSA-83, NCL Colony, Dr. Homi Bhabha Road, Pune 411 008 (IN). MOASSER, Bahram; 11 Talon Drive, Schenectady, NY 12309 (US). PRESSMAN, Eric, James; 451 Miller Road, East Greenbush, NY 12061 (US). SIVARAM, Swaminathan; C11/2 NCL Colony, Pune 411 008 (IN).

AVADHANI, Chilukuri, Ver; SA/13, NCL Colony, Pune 411 008 (IN). KANAGASABAPATHY, Subbareddiar; E-80, NCL Colony, Dr. Homi Bhabha Road, Pune 411 008 (IN).

(74) Agents: SNYDER, Bernard et al.; General Electric Company, 3135 Easton Turnpike W3C, Fairfield, CT 06431 (US).

(81) Designated States (*national*): AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR PREPARING POLYCARBONATES BY OXIDATIVE CARBONYLATION

(57) Abstract: Polycarbonate oligomers are prepared by oxidative carbonylation of a dihydroxyaromatic compound such as bisphenol A in the presence of a catalyst comprising a Group VIII metal such as palladium, an inorganic and/or an organic co-catalyst, a halide source and an alcohol-free solvent comprising at least one liquid aromatic hydrocarbon, optionally in combination with a dipolar aprotic liquid such as N-methylpyrrolidinone. These oligomers may be further polymerized by melt polymerization to precursor polycarbonate oligomers which may be converted to high molecular weight polycarbonates by melt or solid state polymerization.

WO 01/14454 A1